

ABSTRACT OF THE DISCLOSURE

A control cycle discriminating section sets a control cycle T of transmission power to be a short cycle T₁ when the fluctuation rate S is lower than a reference value S₁ or equal to or higher than a reference value S₂, and sets the control cycle T to be a long cycle T_s when the fluctuation rate S is equal to or higher than the reference value S₁ and lower than the reference value S₂. A power controlling section controls transmission power of a transmitting section with the control cycle T. In a mobile station, a power detecting section averages reception power of a radio frequency (RF) signal transmitted from the base station, with the control cycle T, and measures the averaged reception power. A TPC bit generating section compares the measured power with a reference value, generates the TPC signal and transmits the TPC signal to the base station.